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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/082,870	02/25/2002	Mark J. Schnitzer	5	6317
759	90 06/29/2005		EXAM	INER
Docket Administrator (Room 3J-219)			JUNG, WILLIAM C	
Lucent Technologies Inc. 101 Crawfords Corner Road Holmdel, NY 07733-3030			ART UNIT	PAPER NUMBER
			3737	
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DATE MAILED: 06/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Antique Comments	10/082,870	SCHNITZER, MARK J.				
Office Action Summary	Examiner	Art Unit				
	William Jung	3737				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period or - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	mely filed ys will be considered timely. It the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 21 A	oril 2005.					
·=	<u> </u>					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) 1-21 is/are pending in the application	☑ Claim(s) <u>1-21</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-21</u> is/are rejected.						
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.	• .				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 	s have been received.					
2. Certified copies of the priority documents have been received in Application No						
 Copies of the certified copies of the prior application from the International Bureau 	·	ed in this National Stage				
* See the attached detailed Office action for a list	· · · · · · · · · · · · · · · · · · ·	∍d.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D					
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	6) Other:	Patent Application (PTO-152)				

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-21 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Takahashi et al* (US 4,916,534).

Takahashi et al substantially disclose all claimed features in claims 1-21.

Claims 1, 11, and 13: Takahashi et al disclose an optical system where the system is an endoscopic optical imaging system having first and second ends, the probe consisting a GRIN lens 40 configured to carry illumination light over at least a distance as long as the length of the probe, the first end positioned to receive the illumination light from the first optical aperture, and a detector configured to measure emitted light characteristic from the first end in response to multi-photon absorption events produced by the illumination light and producing an output signal for a multi-photon image (col. 2, lines 6-19; col. 3, lines 16-20; col. 9, lines 47-65; col. 10, lines 25-42). Although Takahashi et al do not explicitly disclose compound GRIN lens configuration, Takakashi et al show in figure 17 where the GRIN lenses 40 and 41 are substantially compounded with varied refractive index, i.e. each lens having different pitch (col.

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9, lines 47-53). Therefore, it would have been obvious to one having an ordinary skill in the art at the time the invention was made to render Takahashi et al's GRINS lens formation as being compounded with different pitch.

Claims 2 and 3: Takahashi et al disclose further where the GRIN lens is coupled to a prism 9 with pitch length about the length of the lens (col. 4, lines 31-46).

Claims 4-8, 12, 16, and 21: Takahashi et al disclose a relay GRIN lens and an objective GRIN lens connected serially (col. 9, lines 47-65).

Claims 9, 10, 14, 15, and 17-20: Takahashi et al disclose measuring if intensity and or phase of the emitted response received from the light emitted region. In addition, Takahashi et al disclose that the light source may be pulses of laser light (col. 8, line 43-col. 10 line 24).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William Jung, Ph.D. whose telephone number is 571-272-4739. The examiner can normally be reached on Mon-Fri 8:30 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

WJ

June 25, 2005

BRIAN L. CASLER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700

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